

CH

1ST AND 2ND INDEXES PROCESSES AND PROPERTIES

A method for the measurement of the coefficient of reflection of electrons on a dielectric. M. S. Kosman, I. R. Plotnikov and N. N. Fedorova. *J. Tech. Phys. (U. S. S. R.)* 7, 2231-6(1937); *Chem. Zentr.* 1939, 1, 894-5.—Methods for the detn. of the coeff. of reflection of electrons on metals, which are based upon the measurement of a d. c., cannot be used for such detns. on dielectrics, through which the d. c. does not pass. In the method offered the coeff. of reflection by dielectrics is detd. by offering the potential of the surface of the dielectric, which is exposed to an electron bombardment. The measurement is carried out with the use of a Wulff electrometer, the filaments of which are connected with the metal-coated under surface of the dielectric. The results of measurements on mica are reported. M. G. Moore

ASME-31.4 METALLURGICAL LITERATURE CLASSIFICATION

127

ПЛОТНИКОВ, И.С.

PLOTNIKOV, M

Yugoslavia (430)

Technology

The possibility of substituting pyrocatechol for h hydroquinone in metolhydroquinone developer. p 86. ARHIV ZA KEMIJU, Vol 21, no 1-4 1949.

East European Accessions List. Library of Congress, Vol 1 no 14 Dec 1952.

PLOTNIKOV, I.S.

BT-796 [Softening and bending of carbon at high temperatures] Kazniagohenie i
sgibanie uгля pri vysokikh temperaturakh.
Izvestiia Rossiiskoi Akademii Nauk, (12): 883-890, 1917.

Plotnikov I.M.
PLOTNIKOV, I.M.

Effect of electrolyte temperature on the thickness of oxide films
and the duration of anodisation of aluminum and its alloys. Zhur.
prikl. khim. 30 no.9:1321-1325 S '57. (MIRA 11:1)
(Oxidation, Electrolytic) (Aluminum)

1ST AND 2ND ORDER										3RD AND 4TH ORDER									
PROCESS AND PROPERTIES INDEX																			
<i>Ca</i> <i>22</i> Impregnation of cardboard counters for the purpose of improving their water resistance. I. V. Potnikov. <i>Izvestiya Tsentral. Nauch.-Issledovatel. Inst. Khibinovskoi Prom.</i> 1932, No. 10-11, 30. —Best results were obtained on using compn. contg. heavy petroleum bottoms, which were treated with ZnSO₄ at 250° for 12 hrs. The compn. was then dissolved in solvent naphtha and spindle oil, or it was mixed with hydroxynaphthene acids. Cardboard impregnated with this material showed a water absorption of 6-10% after 2 hrs. immersion, against 70% for unimpregnated cardboard, and 25-30% after 24 hrs. against 90%. A. A. Bochtlingk																			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																			
MATERIALS INDEX										COMMON VARIABLE INDEX									
SUBJECT INDEX										SUBJECT INDEX									

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES INDEX																										MATERIALS INDEX																									
Labels from many layers of fabric. I. V. Pustalov. <i>Kashcherevo-Obozreniya</i> Prom. 16, 180-8(1985).—The best cement for fabric insulates is a 48% viscose solu. mixed with a compn. contg. 80% of bitumen "No. 1," 3% petroleum sulfonic acids, 0.065% NaOH and 48.04% H₂O. Many formulas are given and the results of tests are tabulated. A. A. Bochtlingk																										13																									
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																																																			
1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									

25

Coating of double fabrics, used in the manufacture of harness and saddles, with coats of rubber-casein. I. V. Plotnikov, A. M. Khomutov and A. A. Mincev. *Koz. Arivno-Pharmaz. Prom.* 14, 518-20(1935); *Chem. Zentr.* 1936, I, 4630. Directions are given for the prepn. of such mixes. and their application. M. G. Moore

ASAC-ELA METALLURGICAL LITERATURE CLASSIFICATION

SHTERN, I.A.; KIPNIS, Yu.B.; PLOTNIKOV, I.V.; PAVLOV, S.A.; PAVLOV, N.N.;
VTOROV, G.N.; PROKURAT, R.E.; GLAGOLEVA, K.I.; KOCHERZHINSKAYA,
Ye.L.; FEDOROVA, L.V.; MININ, I.T.

Artificial carbocylate leather. Kozh.-obuv. prom. 6
no.2:32-34 F'64. (MIRA 17:5)

1ST AND 2ND LETTERS																										3RD AND 4TH LETTERS																									
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																										A B C D E F G H I J K L M N O P Q R S T U V W X Y Z																									
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PROCESSES AND PROPERTIES INDEX

Artificial chamols on a base of wool fabric. S. M. Bresler and I. V. Plotnikov. *Koshtovno-Oshuvayt* Prom. S. S. S. R. 15, No. 9, 91-2 (1930). The fabric is creased and impregnated with a rubber soln. or a latex emulsion. The creasing is effected by means of a preliminary mercerization with a 15% NaOH soln. at room temp. and during 30 min., followed by washing and pressing. It is then saturated during 5 min. with a synthetic resin soln. contg. phenol 100, formaldehyde 100, and K_2CO_3 4 parts (the mixt. is heated to boiling for 20 min. and dild. with water 2:1). The goods are dried at 40° and passed through hot rollers to effect a partial polymerization. The unpolymerized ingredients of the mixt. liquid are removed by washing with a lukewarm soap soln. (4-6 g. soap per l. of H_2O) and rinsing with cold water. Instead of phenol resins, urea-aldehyde condensation products resins may be used. A. A. Bochtlingk

ASB-11A METALLURGICAL LITERATURE CLASSIFICATION

1ST AND 2ND LETTERS																										3RD AND 4TH LETTERS																									
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PROCESSES AND PROPERTIES INDEX

Saddle and harness leather substitute. I. V. Plotnikov and A. M. Khomutov. *Koshevanno-Obratnye Prom.* S. S. S. R. 15, No. 11, 58-00(1936).—Several formulas for the prepn. of leather substitutes with synthetic and natural rubber are worked out on the basis of the German patent 373 415. A. A. Profleynov

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

COMMON ELEMENTS

GROUPS

1ST AND 2ND LETTERS

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5TH AND 6TH LETTERS

7TH AND 8TH LETTERS

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11TH AND 12TH LETTERS

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87TH AND 88TH LETTERS

89TH AND 90TH LETTERS

91ST AND 92ND LETTERS

93RD AND 94TH LETTERS

95TH AND 96TH LETTERS

97TH AND 98TH LETTERS

99TH AND 100TH LETTERS

127

Air-permeable lacquers for cloth, shoe uppers and leather substitutes. A. M. Khomutov and I. V. Plotnikov. *Koshevenno-Oboznye Prom. D. S. S. R. 15. No. 12, (1960).*—Seventeen formulas are given for the prepn. of nitrocellulose, nitro-rubber, rubber and rubber-casewin films. A. A. Podgorny

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

127

62

Treating sheep skins. I. V. Plotnikov, P. S. Anan'ev, A. M. Khomutov and I. V. Petrov. Russ. 52,720, Feb. 28, 1958. The flesh side is treated with a dispersion of natural or synthetic rubber with the usual additive, dried, treated with a soln. or dispersion of rubber with caeson with or without the addn. of the primary product of alk. condensation of phenol with formaldehyde and further treated in the usual manner.

ASS-SLA METALLURGICAL LITERATURE CLASSIFICATION

REGIONAL DIVISION

RESEARCH DIVISION

RESEARCH DIVISION

TEST AND PROPERTY INDEX																									
TEST													PROPERTY												
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
✓ Semi-ebonite as a new type of leather substitute for surface coverings. I. Ya. Plotnikov. <i>Caoutchouc and Rubber</i> (U. S. S. R.) 1938, No. 5, 58-60. —The following formula was used: smoked sheet 10, ZnO 0.5, S 2, diphenylguanidine 0.6, kaolin 0, red oxide 1, C black 0.15, lacquer oil 0.24, Neozone 0.3 and stearic acid 0.2. The samples were vulcanized in sheets at 142° for 60 min. The cord was painted with rubber cement and the semi-ebonite film was put on it. The use of Na-butadiene rubber in the formula for semi-ebonite coverings is satisfactory. A. Pestoff																									
ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION																									

PLOTNIKOV, I. V.

Substitute for Russia leather for use in footwear and saddlery. I. V. Plotnikov. *Legkaya Prom.* 3, No. 9/10, 20-2 (1953).--Substitutes for Russia leather are produced by satg. a cloth with a benzine soln. of synthetic rubber (SK). Considerable savings in SK and benzine were achieved by using benzine-aq. emulsion of SK, prepd. with a 25% soln. of proteinaceous substances to facilitate the wetting of the SK and of lampblack. Emulsions with up to 30-40% of H₂O could be prepd. without any wetting agents. With wetting agents emulsions with up to 60% of H₂O were prepd. Increasing the amt. of H₂O raises the viscosity of the emulsions. The rise in viscosity can be counteracted by adding soap, alc., alk. substances, alizarin oil, etc. Stable emulsions were obtained with benzene, benzene Avio (sp. gr. 0.665), Kalosha (sp. gr. 0.740), and 1st grade (sp. gr. 0.670). Results of mech. testing of the product are tabulated. M. Hosh

PILOTNIKOV, I. V. Cand. Tech. Sci.

Dissertation: "Obtaining of the Substitute for Russian Leather on the Base of the Multilayer Fabric of Kersey and Synthetic Rubbers." Moscow Technological Inst of Light Industry imeni L. M. Kaganovich, 27 Feb 47.

SO: Vechernyaya Moskva, Feb, 1947 (Project #17836)

25

CA

Relation of the degree of impregnation of kersey of different laminations to specific wear. I. V. Plotnikov. *Lekhaya Prom.* 7, No. 3, 36-0(1947).--Sewn. of rubber in benzene were studied for impregnation of kersey. Addn. of up to 50% of a casein soln. had no effect on the degree of impregnation. Sovprene showed the greatest wear resistance. Marshall Sittler

4c

L 34843-65

EWI(m)/EPF(c)/EPR/ENP(j)/T Pc-4/Pr-4/Ps-4 RPL NW/RM

ACCESSION NR: AP5008550

S/0286/65/000/006/0062/0062

AUTHOR: Karapetyan, N. G.; Boshnyakov, I. S.; Zhamkochyan, S. G.; Margaryan, A. B.
S.; Zhurkova, D. I.; Yemel'yanova, A. P.; Shapovalova, A. I.; Plotnikov, I. V.;
Sarkisyan, K. G.

TITLE: A method for producing latexes based on copolymers. Class 39, No. 16950

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 6, 1965, 62

TOPIC TAGS: latex, copolymer, acrylonitrile, methacrylic acid, chloroprene

ABSTRACT: This Author's Certificate introduces a method for producing latexes based on copolymers of chloroprene and methacrylic acid using surface-active agents. The elasticity of the latex is improved by joint polymerization of chloroprene with methacrylic acid in the presence of methylvinylketone, chloro-isoprene or acrylonitrile as additives.

ASSOCIATION: none

Cord 1/2

L 7890-66 EWT(m)/EPF(c)/EWP(j)/T/ETC(m) WW/RM

ACC NR: AP5024957

SOURCE CODE: UR/0286/65/000/016/0020/0020

AUTHORS: Golutvina, L. P.; Pavlov, S. A.; Avilov, A. A.; Butuskins, Z. A.;
Tsentsiper, Z. B.; Plotnikov, I. V.; Abramova, D. S.; Strel'tsova, V. I.

ORG: none

TITLE: Method for obtaining fireproof coverings. Class 8, No. 173702 15

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 16, 1965, 20

TOPIC TAGS: fireproofing, fireproof covering, sodium bicarbonate, potassium bicarbonate, aluminum sulfate, *high polymer, protective coating, fire resistant material, high temperature coating*

ABSTRACT: This Author Certificate presents a method for obtaining fireproof coverings on the basis of high polymeric materials containing antipyrenes. To obtain self-extinguishing foam-forming coatings possessing high fire resistance and low heat conduction, a mixture of strong bases (for instance, sodium or potassium bicarbonate), salts of strong acids (for instance, aluminum sulfate), and salts containing water of crystallization (vitriols, alums, and others) are used as antipyrenes.

SUB CODE: *MT* / SUMM DATE: 29Dec62

UDC: 678.049.91

Card 1/1

ABRAMOVA, V.V., starshiy nauchnyy sotrudnik; PLOTNIKOV, I.V., kand. tekhn. nauk; FREYDGETM, K.I., mladshiy nauchnyy sotrudnik; PISARENKO, A.P., doktor khim. nauk, prof.; PAVLOV, S.A., doktor tekhn. nauk, prof.

Manufacture of artificial suede type leather without salt washout. Nauch.-issl. trudy VNIIPK no.14:156-163 '63.
(MIRA 18:12)

SAMYSHEINA, M.A., nauchnyy sootrudnik; PAVLOV, S.A., doktor tekhn. nauk,
prof.; PLATONOV, I.V., kand. tekhn. nauk

Adhesion of butadiene-nitrile rubber (SKN-26) to cellophane
and polyamides. Nauch.-issl. trudy VNIITK no.14-13-143 '69.
(MBA 18-12)

KIPNIS, Yu.B.; SHTERN, I.A.; PLOTNIKOV, I.V.; PAVLOV, N.N.; PAVLOV, S.A.

Use of modified polyamides for the finishing of artificial
leather based on rubber. Kozh.-obuv. prom. 6 no.5:31-34
My '64. (MIRA 17:12)

ACCESSION NR: AR4042252

S/0081/64/000/008/S095/S095

SOURCE: Ref. zh. Khimiya, Abs. 88573

AUTHOR: Sany'shkina, M. A.; Pavlov, S. A.; Plotnikov, I. V.

TITLE: Adhesion of butadiene-nitrile rubber (SKN-26) to cellophane and polyamide

CITED SOURCE: Nauchno-issled. tr. Vses. n.-i. in-t plenochn. materialov i
iskusstv. kozhi, sb. 14, 1963, 134-143

TOPIC TAGS: butadiene nitrile rubber, cellophane, polyamide, polymer, adhesion

TRANSLATION: Investigates adhesion of film of SKN-26 [SKN-26, 100pts; dioctyl phthalate, 18 pts; ZnO, 5 pts; S 1 pt; thiuram, 1 pt; resin (rosin, coumaroneindene, n-tert-butyl phenolformaldehyde, phenolformaldehyde PB, epoxide E-2000) 5-30 pts], decanted from 10% solution in butylacetate to cellophane and polyamide AK 60/40 (from 12% solution in 95% alcohol) on the adhesiometer of the Central Scientific Research Institute for Leather Substitutes. The introduction of all the resins except rosin increases adhesion to cellophane significantly and to polyamide,

Cord 1/2

SHTERN, I.A., inzh.; PLOTNIKOV, I.V., kand.tekhn.nauk; PAVLOV, S.A., doktor
tekhn. nauk

Obtaining leather-like grain on films during the process of pore
formation. Kozh.-obuv.prom. 6 no.3:22-23 Mr '64. (MIRA 17:4)

POLINSKIY, S.L., inzh.; PLOTNIKOV, I.V., kand. tekhn. nauk; PAVLOV, S.A.,
doktor tekhn. nauk, prof.

Synthesis and investigation of hydrophilic polyester urethanes.
for the manufacture of artificial leather with high hygienic
properties. Izv. vys. ucheb. zav.; tekhn. leg. prom. no.5:
31-36 '63. (MIRA 16:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut plenochnykh
materialov i iskusstvennoy kozhi (for Polinskiy, Plotnikov).
2. Moskovskiy tekhnologicheskoy institut legkoy promyshlennosti
(for Pavlov).

SAMYSHKINA, M.A., inzh.; PLOTNIKOV, I.V., kand. tekhn. nauk; PAVLOV,
S.A. doktor tekhn. nauk, prof.

Investigating some factors which increase the wear resistance
of electrostatic suede leather. Report No.2. Izv. vys. ucheb.
zav.; tekhn. leg. prom. no.2:14-20 '63. (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennoy
kozhi i plenochnykh materialov (for Samyshkina, Plotnikov).
2. Moskovskiy tekhnologicheskoy institut legkoy promyshlennosti
(for Pavlov). Rekomendovana kafedroy tekhnologii iskusstvennoy
kozhi i plenochnykh materialov Moskovskogo tekhnologicheskogo
instituta legkoy promyshlennosti.

SHTERN, I.A., inzh.; PLOTNIKOV, I.V., kand. tekhn. nauk; PAVLOV, S.A.,
doktor tekhn. nauk, prof.

Investigating the washing out of pore building agents from
carboxyl-containing rubbers. Izv. vys. ucheb. zav.; tekhn.
leg. prom. no.2:48-54 '63. (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut plenochnykh
materialov i iskusstvennoy kozhi (for Shtern, Plotnikov).
2. Moskovskiy tekhnologicheskoy institut legkoy promyshlennosti
(for Pavlov). Rekomendovana kafedroy tekhnologii iskusstvennoy
kozhi i plenochnykh materialov.

POLINSKIY, S.L., inzh.; PLOTNIKOV, I.V., kand. tekhn. nauk; PAVLOV, S.A.,
doktor tekhn. nauk, prof.

Synthesis and investigation of hydrophilic polyester urethanes
for the manufacture of artificial leather with high hygienic
properties. Izv. vys. ucheb. zav.; tekhn. leg. prom. no.4:
54-64 '63. (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut plenochnykh
materialov i iskusstvennoy kozhi (for Polinskiy, Plotnikov).
2. Moskovskiy tekhnologicheskoy institut legkoy promyshlennosti
(for Pavlov).

SAMYSHKINA, M.A., inzh.; PLOTNIKOV, I.V., kand.tekhn.nauk; PAVLOV, S.A., doktor tekhn.nauk, prof.

Investigating some factors which increase the wear resistance of suede leather processed in an electric field. Report No.1. Izv.vys.ucheb.zav.; tekhn.leg.prom. no.1:53-62 '63. (MIRA 16:3)

- 11 ~~Vostochnyy~~ nauchno-issledovatel'skiy institut iskusstvennoy kozhi i plenochnykh materialov (for Samyshkina, Plotnikov).
2. Moskovskiy tekhnologicheskiy institut legkoy promyshlennosti (for Pavlov). Rekomendovana kafedroy tekhnologii iskusstvennoy khozhi i Plenochnykh materialov Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.

(Leather, Artificial)

TSVETKOVA, N.A., nauchnyy sotrudnik; LIEROVA, R.A., kand.tekhn.nauk;
PLOTNIKOV, I.V., kand.tekhn.nauk

Manufacture of artificial patent leather. Nauch.-issl.trudy
VNIIPK no. 213-11 '60. (MIRA 16:2)
(Leather, Artificial) (Urethanes)

MOTINA, L.F., kand.tekhn.nauk; PLOTNIKOV, I.V., kand.tekhn.nauk; PAVLOV,
S.A., doktor tekhn.nauk

Fire- and bacteria-resistant materials for mine ventilation
pipes. Nauch.-issl.trudy VNIIPK no.12:30-35 '60. (MIRA 16:2)

(Mine ventilation—Equipment and supplies)
(Protective coatings)

DATSKEVICH, L.A.; LIBEROVA, R.A.; LOSEV, I.P.; PLOTONIKOV, I.V.;
SVOYKINA, A.S.; TSVETKOVA, N.A.

Studying the effect of the primary polyatomic alcohols on the
properties of polyester urethane lacquers. Lakokras.mat.i ikh
prim. no.2:22-26 '62. (MIRA 15:5)

1. Moskovskiy ordena Lenina khimiko-tekhnologicheskii institut imeni
D.I.Mendeleeva i Vsesoyuznyy nauchno-issledovatel'skiy institut
plenochnykh materialov i iskusstvennoy kozhi.
(Lacquers and lacquering—Testing)

KHOROSHAYA, Ye.S.; LYKOVA, A.N.; SAMYSHKINA, M.A.; PLOTNIKOV, I.V.;
AFANAS'YEV, A.V.

Methods of chemical analysis of fabrics with a pile coating
applied in an electrostatic field. Tekst.prom. 21 no.9:58-59
S '61. (MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut plenok i
iskusstvennoy kozhi (for Khoroshaya, Lykova, Samyshkina, Plotnikov).
2. ~~Zadestitel'~~ glavnogo inzh. fabriki "Proletarskiy trud" (for
Afanas'yev).

(Textile fabrics—Testing)

KHOROSHAYA, Ye.S.; LYKOVA, A.N.; PLOTNIKOV, I.V.; SAMYSHKINA, M.A.;
PETUKHOV, M.S.

New high-speed method of analyzing metazine characteristics.
Tekst.prom. 21 no.3:45-46 Mr '61. (MIRA 14:3)
(Melamine) (Textile finishing)

PLOTNIKOV, K.; KOZEL'SKIY, N.

In the Institute of Economics of the Academy of Sciences of the
U.S.S.R. Vop.ekon. no.5:137-142 My '61. (MIRA 14:5)
(Economics)

PLOTNIKOV, K.

Transoceanic meetings. Vop.ekon. no.6:155-160 Je '60.

(MIRA 13:6)

(Russia--Relations (General) with the United States)

(United States--Relations (General) with Russia)

(United States--Economic conditions)

PLOTNIKOV, K.; KOZEL'SKIY, N.

In the Economics Institute of the Academy of Sciences of the U.S.S.R.
Vop. ekon. no. 4:168-172 Ap '60. (MIRA 13:3)
(Economic research)

PLOTNIKOV, K.

International congress of economists. Vop. ekon. no.12:150-153
D '62. (MIRA 16:1)

1. Chlen-korrespondent AN SSSR.

(Economics—Congresses)

PLOTNIKOV, K.; KOZEL'SKIY, N.

In the Institute of Economics of the Academy of Sciences of the U.S.S.R.
Vop. ekon. no.6:156-160 Je '63. (MIRA 16:6)
(Economic research)

PLOTNIKOV, K.

Program of the CPSU and the tasks of the departments of social sciences in developing economic research. Vop. ekon. no.3: 98-107 Mr '62. (MIRA 15:3)

1. Chlen-korrespondent AN SSSR.
(Communism) (Economic research)

PLOTNIKOV, K.

Several important trends in economic research. Vop. ekon.
no.11:77-91 N '63. (MIRA 17:2)

1. Chlen-korrespondent AN SSSR.

PLOTNIKOV, K.

Meetings abroad. Vop. ekon. no.9:156-160 S '62. (MIRA 15:9)

1. Chlen-korrespondent AN SSSR.
(Russia—Relations (General) with foreign countries)
(Economics)

0

KASITSKIY, I.; MANEVICH, Ye.; ZVEREV, A.; KAPUSTIN, Ye.;
NEMCHINOV, V., akademik; VOROB'YEVA, A.; YEVSTAF'YEV, G.;
SHAKHURIN, A.; KOSYACHENKO, G.; PLOTNIKOV, K.; AL'TER, L.;
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1ST AND 2ND INDEX										3RD AND 4TH INDEX									
PROCESSING AND PROPERTY INDEX																			
CA Separation of fine powders by air. Yu. M. Hutt and L. A. Plotnikov. <i>Zvezdskaya Lab.</i> 10, 650-1(1941).— An app. for the sepa. of fine powders into uniform fractions is described. A known quantity of the powdered substance passed through a sieve (4000 openings/sq. cm.) is placed in a V-shaped tube in the app., and air is forced through the system at various velocities. The granulometric compo. of the fractions thus obtained is very uniform. W. R. Henn																			
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION																			
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1ST AND 2ND CODES										3RD AND 4TH CODES									
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Determination of free lime in nonhydrated and hydrated cements. Yu. M. Butt and L. A. Plotnikov (The Mendeleev Chem.-Tech. Inst., Moscow): <i>Zhurnal Khim. 12, 254-5(1940)</i>.—In the Konarzewski and Lukasiewicz method (C.A. 26, 5397; 27, 582) for detn. of free CaO by extn. with PhOH + EtOH, 1/2 of the water produced in the formation of Ca phenolates reacts with tricalcium silicate of the cement clinker, and thus produces an error. The method of Emley (C.A. 10, 570), based on the soln. of free lime in a hot mixt. of anhyd. glycerol with abs. alc. and titration of Ca glyceride with alc AcONH₄, produces satisfactory results, although the time required for the detn. is 7-8 hrs.). By grinding the original sample to 10000 openings/sq. cm., it is possible to limit the detn. to 1 treatment of the powder with the alc.-glycerol mixt. (without a subsequent drying, igniting, and grinding). Three references. . . . W. R. H.																			
ASB-51A METALLURGICAL LITERATURE CLASSIFICATION FROM SYNOBOL FROM SYNOBOL																			

5485. DETERMINATION OF EFFECTIVE PORE RADII OF REFRACTORY MATERIALS. Plotnikov, L.A. (Zavodskaya Lab. (Factory Lab.), Apr. 1949, vol. 15, 494-495). Describes a method for the above developed by A.I. Agapov. Structural details of the apparatus are indicated. Data from investigations of 7 different refractory materials are tabulated.

B.L.R.

PLOTNIKOV, L. A.

PA 169T66

USSR/Minerals - Ceramics

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"Determination of the Specific Thermal Conductivity of Ceramic Materials," L. A. Plotnikov, Moscow Inst of Steel imeni I. V. Stalin

"Zavod Lab" Vol XVI, No 9, pp 1136-1139

Main shortcoming of 2-point method, developed by G. M. Kondrat'yev for determination of thermal conductivity of refractories, is difficulty of temperature regulation. Plotnikov suggests method in which determination is conducted not on heating but on cooling of specimen. Necessity of temperature regulation is thus eliminated. Describes and discusses method and equipment.

169T66

PLOTNIKOV, L. A. (Docent)

"Materials for Construction of Furnaces," from the book Metallurgical Furnaces
(Metallurgicheskiye Pechi) Metallurgizdat, 1951.

Candidate of Technical Sciences